

Product datasheet for **MG206025**

Vps36 (NM_027338) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vps36 (NM_027338) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Vps36
Synonyms: 1700010A24Rik; 2210415M20Rik; 2810408E15Rik; Eap45
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206025 representing NM_027338
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCGCTTCGTGTGGACCAGCGGCCTCCTGGAGATCAACGAGACCCTGGTTATCCAGCAGCGCGGGG
 TGCGCGTCTACGACGGCGAGGAGAAGATAAAATTTGATGCCGGGACTCTTCTTCTAGTACACACCGGCT
 GATTTGGAGAGACCAGAAGAATAATGAGTGTGCATGGCCATTCCTGTCTCAGATTGTGTTTCATCGAG
 GAGCAGGCAGCTGGAATCGGAAGAGCGCCAAAATCGTGGTTCACCTGCACCCAGCTCCTCTAACAAAG
 AGCCCGTCCGTTCCAGAGCAGTAAGAATCCTACATCAGACTCTCCTTCAAAGAACATGGCCAGATTGA
 GTTTTACAGCGTTTATCAGAAGAAATGACACAGAGAAGATGGGAGACTGTGCCAGTTTCCAGTCACTA
 CAAACAAATAAAGGACCCAGCCAGGAAGATAAGAGCTGTTGGAATTGTAGGTATTGAAAGGAACTTG
 AAGAAAAAGAAAAGAAACCGATAAAAAATTTCTGAGGCCTTTGAAGACCTGAGCAAGCTGATGATTAA
 GGCTAAGGAAATGGTGGAGTTATCCAAATCAATCGCTAATAAGATTAAAGAGAAGCAAGGCGATGTCACA
 GAGGATGAGACCATCAGGTTTAAGTCGTACCTGCTGAGTATGGGAATAGCCAACCCAGTCAACAGAGAAA
 CCTATGGCTCCGGCACACAGTACCACATGCAGCTGGCCAAACAGCTGGCTGGAATATTGCAGGCACCTTT
 GGAGGAGCGTGGGGAAATAATGTCCCTCACAGAGGTGTACTGTCTAGTGAACCGGGCCCGAGGAATGGAG
 TTGCTCTGCCAGAAGATTTGGTAAATGCGTGCAAGATGCTGGAAGCGCTAAAATTCCTATCAGGCTTC
 GGGTTTTTGACAGTGGTGTCTGTAATTGAGCTTCAAACCTACAAGGAAGGAAATGGTGGCCTCGGC
 CCTGGAGACGGTTTCAGAAAGGGGTCCTTAACATCCGAAGATTTGCCAAGCTTGTGGGAATGTCTGTC
 CTTCTGGCTAAAGAAAGGCTGCTCCTTGACAGAGAAGATGGGCCACCTTTGCCGAGACGACTCCGTGGAAG
 GCTTGGGTTTTATCCAAATTTATTTATGACACAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206025 representing NM_027338
 Red=Cloning site Green=Tags(s)

MDRFVWTSGLLEINETLVIQQRGVRVYDGEKIKFDAGTLLLSTHRLIWRDQKNECCMAIPLSQIVFIE
 EQAAGIGKSAKIVVHLHPAPSNKEPQPFQSSKNSYIRLSFKEHGQIEFYRRLSEMTQRRWETVPVSQSL
 QTNKGPOQGRVRAVGIVGIERKLEEKRETDKNISEAFEDLSKLMIKAKEMVELSKSIANKIKEKQGDVT
 EDETIRFKSYLLSMGIANPVTRETYGSGTQYHMQLAQLAGILQAPLEERGGIMSLTEVYCLVNRARGME
 LLSPEDLVNACKMLEALKLPIRLRVFDSGVMVIELQTHKEEEMVASALETVSRGSLTSEEFAKLVGMSV
 LLAKERLLLAEKMGHLCRDDSV EGLRFYPNLFMTQN

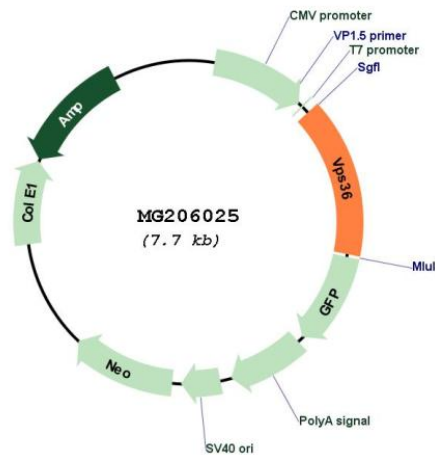
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027338

ORF Size:	1158 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_027338.2
RefSeq Size:	1290 bp
RefSeq ORF:	1161 bp
Locus ID:	70160
UniProt ID:	Q91XD6
Cytogenetics:	8 A2
Gene Summary:	Component of the ESCRT-II complex (endosomal sorting complex required for transport II), which is required for multivesicular body (MVB) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. The ESCRT-II complex is probably involved in the recruitment of the ESCRT-III complex. Its ability to bind ubiquitin probably plays a role in endosomal sorting of ubiquitinated cargo proteins by ESCRT complexes. The ESCRT-II complex may also play a role in transcription regulation, possibly via its interaction with ELL. Binds phosphoinositides such as PtdIns(3,4,5)P3.[UniProtKB/Swiss-Prot Function]